

ABSTRACT FOR THE DISCLOSURE

A gas turbine system comprises a gas turbine (1, 2, 3) having a compressor (1) and a turbine (2), which via a common shaft (3) drive a generator (4), and a combustion chamber (6), the exit of which is connected to the entry to the turbine (2) of the gas turbine (1, 2, 3), has a fuel feed (8) and receives combustion air from the exit of the compressor (1) of the gas turbine (1, 2, 3) via the high-pressure side of a recuperator (5), the exit of the turbine (2) and the entry to the compressor (1) of the gas turbine (1, 2, 3) being connected via the low-pressure side of the recuperator (5), and a first exhaust-gas turbocharger (ATL2) which sucks in air being connected to different locations (9, 10) of the low-pressure side of the recuperator (4) by means of the exit of its compressor (13) and the entry to its turbine (14).

A system of this type is suitable for combined heat and power generation installations if the compressor (1) of the gas turbine (1, 2, 3) is designed as a radial compressor.

(Fig. 1)